

A review of the tensile, compressive, flexural and shear properties of hybrid fibre-reinforced plastics.

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Abstract

Composites containing more than one type of fibre are known as "hybrid composites"TM. The present paper surveys research work published in this field with special emphasis on the basic mechanical properties of continuous-fibre hybrids and the models used to predict them. Mostly unidirectional material is considered here, because the study of multidirectional laminates introduces additional variables which so far have not been well investigated. Most of the data available in the literature concerns carbon and glass hybrid fibre-reinforced epoxy.



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Keywords

composite materials; hybrids; mechanical properties; hybrid effect; review

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